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L28: Entry 1 of 4

File: PGPB

Nov 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040230616
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040230616 A1

TITLE: Database item versioning

PUBLICATION-DATE: November 18, 2004

INVENTOR-INFORMATION:

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NAME	CITY	STATE	COUNTRY	TYPE CODE
Microsoft Corporation	Redmond	WA		02

APPL-NO: 10/868111 [\[PALM\]](#)
DATE FILED: June 15, 2004

RELATED-US-APPL-DATA:

Application 10/868111 is a continuation-of US application 09/235038, filed January 21, 1999, PENDING

INT-CL-PUBLISHED: [07] G06F 17/00

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US-CL-CURRENT: [707/104.1](#)

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

Database item versioning, such as items like stored procedures found in databases such as Standard Query Language (SQL) databases. In one embodiment, a program such as an editor, a database, a source and a mechanism. An editor program provides for editing a stored procedure. The databases includes the stored procedure. The SCC system stores versions of the stored procedure. The mechanism checks in and checks out the stored procedure to provide for effective versioning thereof.

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Xerox Inc.

Advanced Programming Features

SQL Studio's interactive programming environment now includes support for team development with a convenient "check in/check out" feature. Any set of code objects, such as stored procedures, can be automatically checked out to prevent other SQL Studio users from inadvertently modifying the same object at the same time.

DBAs can view the status of all objects and manually check in any object. SQL Studio also simplifies the debugging process by providing easier access to the output of Oracle7 procedures with its new DBMS Output Window.

Visual Explain Plan

SQL Studio's new graphical Explain Plan feature makes a formerly intimidating and difficult Oracle feature extremely useful and easy to manage. With one click of the mouse, programmers and DBAs can view the access path for any SQL statement in a convenient outline format. SQL Studio automatically maintains the necessary Explain Plan table, and makes it easy to compare the plans of several different SQL statements.

SQL Studio saves the actual SQL text with the plan, along with any comments added for future reference. In addition, SQL Studio records the execution cost as returned by the Oracle cost-based optimizer, making SQL Studio a useful tool for database tuning.

"At Estee Lauder we are currently optimizing the queries executed by our Visual Basic programs," said Bob Levittan of Estee Lauder. "SQL Studio has been a real time saver for me in my analysis of the reports. I can view all the relevant Oracle objects without the need to type involved SQL statements over and over again."

Powerful Scripts

SQL Studio's new scripting facilities enable users to run SQL scripts directly from their PCs. SQL Studio can run, pause, rewind and conveniently single-step through scripts. SQL Studio remembers the most recently executed scripts, making it convenient to rerun them later.

Users can also create scripts automatically based on their actual database definitions. This makes it easy to export the definition of a table from one schema, for example, and recreate it in another schema. SQL Studio supports exporting entire sets of objects. In an environment with separate testing and production databases, a programmer with SQL Studio can export the definitions of all of the tables, indexes and views from a database with only a few mouse clicks.

Advanced Role Manager

SQL Studio's new Role Manager uses simple "drag and drop" techniques to administer Oracle7 roles and grants. DBAs can easily create new roles, and can drill down on a specific role to see which users have been granted that role.

The Role Manager also shows DBAs what system privileges have been granted to users and roles. To assign a system privilege to a role or user, users drag the privilege to the role or user and drop it with the mouse. The Role Manager supports all 83 of Oracle7's system privileges.

SQL Studio manages object privileges similarly: individuals can drill down in the role map to see what object privileges have been

granted to users and roles. Users can easily grant, revoke and monitor all object privileges on tables, views, sequences, procedures, functions, packages and snapshots.

Availability and Pricing

SQL Studio is available on Microsoft Windows, and runs client/server to Oracle7 on any platform via SQL*Net. SQL Studio is priced at \$495 per named developer in the United States. International prices vary. Stanford Technology Group Inc. can be reached at 415/247-6540.

Stanford Technology Group Inc., headquartered in San Francisco, is a leading-edge information systems products and services company specializing in relational database technology and decision support systems.

Note to Editors: SQL Studio is a trademark of Stanford Technology Group Inc. Oracle7 and SQL*Net are trademarks of Oracle Corp. Microsoft and Windows are trademarks of Microsoft Corp.

CONTACT: Stanford Technology Group Inc.
David Lichtblau, 415/247-6540

KEYWORD: CALIFORNIA

INDUSTRY KEYWORD: COMPUTERS/ELECTRONICS COMED PRODUCT

01697028/9 Links

Gale Group Computer DB(TM)

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01697028 **Supplier Number:** 16182856 (This Is The FULL TEXT)

Sneak preview of SQL Studio 2.0. (Stanford Technologies Group Inc's GUI for Oracle 7)

Cox, Thomas B.

Data Based Advisor , v12 , n8 , p29(1)

August , 1994

ISSN: 0740-5200

Language: ENGLISH **Record Type:** FULLTEXT

Word Count: 535 **Line Count:** 00043

Text:

(Provided by Stanford Technologies. The product was still in development at press time, so this list is neither final nor binding.

Check in/Check out

SQL Studio 2.0 will support team development through a check in/check out feature. Any set of code objects can be checked out to prevent other SQL Studio users from inadvertently modifying the same object at the same time. The DBA can view the status of all objects and override any checked out object.

Advanced Role Manager

SQL Studio 2.0's advanced role manager will use simple "drag and drop" techniques to administer roles and grants. Create new roles and use the role map to drill down to see which users have been assigned to which roles. To assign a system privilege to a role or to user, drag the privilege to the role or user and drop. The role manager supports all 83 of Oracle7's system privileges. In addition, you can grant, revoke, and monitor specific object privileges on tables, views, sequences, procedures, functions, packages, and snapshots.

Graphical Table Editor

SQL Studio's graphical table editor supports key Oracle features. Create and edit table definitions including comments, default values, and Oracle storage parameters. Create, enable, disable, and drop all types check, and unique constraints. You can also manage all of the indexes associated with a table, including storage clause information.

Explain Plan

SQL Studio 2.0's graphical explain plan feature makes the Oracle explain plan utility useable and useful. Programmers and DBAs can easily view the access path for any SQL statement in a convenient outline format. SQL Studio automatically maintains the necessary explain plan table making it easy to compare the plans of several different SQL statements. You can save plans with comments for future reference.

Scripts

New scripting facilities enable you run any SQL script. You can have as many Execute SQL Windows open as you want, each with a separate cursor

into Oracle. Supports text cut and paste. Remembers your most recently executed scripts so you can quickly rerun them.

Exporting Scripts

Highlight object in the Object Map and then click on the export icon to create a SQL script for it. For example, you can export the definition of a table from one schema and easily copy it into another schema. You can also export an entire set of objects. For example, you may want to export all of the table, index, and view definitions from a schema and import them into another schema. Not recommended for copying stored procedures.

Reporting capabilities

Useful reports for developers. Print all source code in a schema, or choose only the invalid code along with the corresponding explanations. Detail your complete trigger definitions, or list a set of tables and see which triggers are associated with them. In addition, SQL Studio's reporting can track your procedures and their corresponding dependencies.

Architecture

SQL Studio fully exploits the Microsoft Windows graphical user interface, while running client/server to an Oracle 7 Server on any platform.

The advances in version 2.0 of SQL Studio will change its status from vital to indispensable for Oracle developers.

COPYRIGHT 1994 Data Based Solutions Inc.

Company Names: Stanford Technology Group Inc.--Products

Descriptors: Product Development; GUI; Software Design

SIC Codes: 7372 Prepackaged software

Trade Names: SQL Studio 2.0 (GUI)--Design and construction

File Segment: CD File 275

01815019/9 Links

Gale Group Computer DB(TM)

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01815019 **Supplier Number:** 17345882 (This Is The FULL TEXT)

BIM-EDIT/XP.(B I Moyle Associates' BIM-EDIT/XP text editor) (Software Review)(Evaluation)

Courtney, Philip

Enterprise Systems Journal , v10 , n3 , p12(1)

March , 1995

Document Type: Evaluation

ISSN: 1053-6566

Language: English **Record Type:** Fulltext; Abstract

Word Count: 674 **Line Count:** 00062

Abstract: B I Moyle Associates' BIM-EDIT/XP provides a single location for multiple platform editing. Traditionally, distributed application development requires multiple text editors. With BIM-EDIT/XP however, users can directly access MVS, VSE and OS/2 members from an OS/2 workstation, and overcome the limitations of the 3270 terminal. The editor works well with workstation-based development software, and provides a high level of control and flexibility. The software optimizes performance with cooperative processing, and by saving only new or modified lines instead of transferring the entire member across platforms. BIM-EDIT/XP also permits mainframe members to be downloaded to the workstation. There are facilities to guard against concurrent retrieval, and to validate synchroniation between mainframe and workstation. Updates can be monitored across the distributed environment, and audit trails can be generated for any file.

Text:

B I Moyle Provides Multiplatform Single Editor

Distributed application development has traditionally required use of a number of platform-unique text and program editors. Many times, these editors contain similarity across multiple platforms. This similarity, however, requires a sacrifice of flexibility and control as editors attempt to mirror the functionality of the platform on which they were originally developed. While multiplatform editors provide the benefit of familiarity, developers are constantly required to initiate costly upload and download activities to transfer entire source code members across platforms.

BIM-EDIT/XP, from B I Moyle Associates, Inc., consolidates multiple platform editing into a single location. From an OS/2 workstation, developers may directly access MVS, VSE or OS/2 members or jobs while experiencing greater editor intelligence by eliminating 3270 limitations. BIM-EDIT/XP ensures distributed source synchronization and contains an optional "Checkin/Checkout" feature to protect against accidental regression.

BIM-EDIT/XP works well in conjunction with workstation-based development environments such as Micro Focus Workbench (Micro Focus, Ltd., Palo Alto, CA) and CA-Relia Workbench (Computer Associates International, Islandia, NY). The product exploits the best features of the mainframe and

workstation environments by providing the control, flexibility and performance improvements required in a distributed environment.

Major Features

BIM-EDIT/XP uses cooperative processing to optimize performance. Mainframe interaction occurs during session initiation, when text is downloaded and at session save time. Interaction also occurs for specific operations that are off-loaded to the host for performance reasons. Further optimization is achieved by saving only the new and modified lines instead of transferring the entire member across platforms.

Mainframe members can also be downloaded to the workstation for use in a development tool. Source control features between BIM-EDIT/XP and the mainframe-based BIM-EDIT verify security access and ensure against concurrent retrieval. These features also validate synchronization between mainframe and downloaded versions at the start of a workstation edit session. During a save, BIM-EDIT/XP updates both workstation file and mainframe member.

When used, the "Checkin/Checkout" facility records source movement and limits access to the original member. A checked-out source code is copied to a new directory where edits may occur. Source in "Checkout" status prevents additional retrieval until the modified code is "checked-in." Additionally, security can be defined to limit "Checkin" function access to administrators or project managers.

BIM-EDIT/XP also provided the ability to monitor updates in a distributed environment. Audit trails, created on the workstation, can be optionally activated for any file, enabling BIM-EDIT/XP to monitor updates, userid, date and time for the start and stop of an edit session.

Version control capabilities enable developers to maintain multiple past versions of source files on either workstation or mainframe.

Improved Performance

BIM-EDIT/XP optimizes performance by transferring source lines during initial reference instead of the start of a session. Lines are downloaded in blocks only when required, eliminating the need to transfer entire programs.

The LU 6.2 connection between BIM-EDIT on MVS or VSE enables BIM-EDIT/XP users to simultaneously maintain sessions involving entities from different mainframes. A Hot Restart feature enables developers to optionally save modified source in a special workstation directory. BIM-EDIT/XP will, if the mainframe and workstation file are deemed "in-synch," present the workstation version for editing during the next edit session -- even if the mainframe version is selected.

BIM-EDIT/XP helps improve programmer productivity with dynamic line selection features and an exclusion facility. Line selection features allow developers to build selection criteria to process against specific lines containing specific text fields. Exclusion functions permit a session to temporarily display only a subset of session lines, typically those matching scanned criteria. Commands then operate only on the subset lines, ignoring the excluded lines.

BIM-EDIT/XP is available from B I Moyle Associates, Inc., 5788 Lincoln Drive, Minneapolis, MN 55436, (612) 933-2885.

--Philip Courtney

Company Names: B I Moyle Associates Inc.--Products

Descriptors: Software Single Product Review; Program Editor

SIC Codes: 7372 Prepackaged software

Trade Names: BIM-EDIT/XP (Program editor)--Evaluation

File Segment: CD File 275

11044953/9 Links

Gale Group Trade & Industry DB

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11044953 **Supplier Number:** 54649314 (THIS IS THE FULL TEXT)

FrontPage's Evolution For The Millennium.(Microsoft FrontPage 2000)(Product Development)

Jurvis, Jeff

InformationWeek , NA

May 17 , 1999

ISSN: 8750-6874

Language: English

Record Type: Fulltext; Abstract

Word Count: 2192 **Line Count:** 00180

Abstract: Microsoft has scheduled a Jun 1999 release for its FrontPage 2000 Web authoring program. This version is more fully integrated with Microsoft Office and employs an interface similar to that of Microsoft Outlook. Microsoft is extending FrontPage's concept of themes across the entire Office 2000 suite. These themes are especially useful in providing a unified appearance in Word 2000 and PowerPoint 2000 documents and presentations. Personalized menus will enable FrontPage 2000 users to rearrange their menus according to frequency of use. Three of the major improvements in FrontPage 2000 are the Web-site management tools, Web-page design and creation tools, and Web application development tools.

Text:

Microsoft is good at taking mediocre products and remaking them over time into full-featured offerings. That's certainly the case with the FrontPage 2000 Web development environment, slated for a June release.

The Web authoring tool's ancestors all tried to be three tools in one delivered via two separate interfaces-the FrontPage Explorer and the FrontPage Editor. FrontPage 2000 has a much more efficient all-in-one interface with strong similarities to Microsoft Outlook. The new integrated interface makes a great first impression and is a marked improvement from the disjointed interfaces of previous versions.

The single document interface has an icon bar along the left edge. The rest of the window is filled with either one or two additional panels. When looking at file structures in FrontPage's File or Navigation view, users get a Windows Explorer-like tree view and the content panel. The Task and Reports views are single-panel tables.

Office Integration

Previous versions of FrontPage never quite seemed to integrate into Office. Microsoft has considered FrontPage a member of the Office line since FrontPage 97, but I never saw the underpinnings to support the claim.

FrontPage 2000 is more directly related to Office 2000 visually with its Outlook-like layout and functionality. FrontPage 2000 uses the Office 2000 spelling engine to check spelling as you type, littering text with those not-so-subtle squiggly lines under misspelled words. Missing are the other language tools-grammar checker and hyphenation-that also come in handy, especially for wordy Web sites.

Microsoft has extended the concept of themes-one of FrontPage's most useful concepts-across the whole Office 2000 suite. A theme is a predefined set of design elements for backgrounds, bullets, fonts, and colors. FrontPage themes work especially well in Microsoft Word 2000 and PowerPoint 2000, in which documents and presentations display a unified look.

But there are still places in Office 2000 where FrontPage integration is clearly missing. When opening a new HTML document in Word 2000 and viewing the HTML source code, Word starts up the Microsoft Development Environment to handle HTML code viewing and editing, not the easier-to-use FrontPage 2000, which I set as my default HTML editor in Windows Explorer. HTML documents created by Word 2000 are fairly complex. Word 2000 uses HTML as a full-fledged file format (including all formatting information) by embedding Extensible Markup Language in HTML comments-nothing that FrontPage 2000 can't handle.

Other notable user-interface features of FrontPage 2000 include elements new to all of Office 2000. Personalized menus are a radical addition that will cause an initial shudder in those who appreciate intuitive and efficient user interfaces. These new menus try to adapt to the user by rearranging menu items by their frequency of use. Some rarely used items are excluded from the menu but can be seen by selecting a new menu symbol. If you keep a menu open long enough, the hidden items will automatically appear. Personalized menus can be disabled, which I did soon into my evaluation, right after discarding the Office "Assistants".

Beyond the new look and feel, the three major functions of FrontPage 2000 are improved. FrontPage 2000 provides Web-site management tools, Web-page design and creation tools, and Web application development tools.

Site Management

FrontPage has always been strong in site management, especially for small and midsize sites. Improvements in FrontPage 2000 make it even stronger. Microsoft has reorganized and added site-maintenance tools that deliver reports through the Outlook-like main window. Maintenance reports cover broken links, orphaned pages, and estimated page load times. Project-management reports list page status, task assignments, and source-code control status.

Tasks are created and assigned in the Task View. You can also set task priority and status. In another obvious inconsistency, FrontPage tasks can't be imported from or exported into Microsoft Outlook or Microsoft Project.

HTML source code can be controlled through FrontPage 2000's own simple check-in and check-out feature or by integrating with Visual SourceSafe. Source-code control is especially useful for Web pages that are replicated across various staging servers. Keeping track of page versions is a necessity in a distributed environment. Source-code control also prevents clashes on sites with multiple designers by blocking access to a page while it's checked out for editing.

FrontPage 2000 makes links easier to manage with the broken links report and with automatic link updating, which fixes links when pages and graphics are moved or renamed. The Hyperlinks view in the main window

presents a graphical link map with click-and-drag link editing. A clever twist that FrontPage 2000 provides is the ability to edit links and propagate changes through all or a selection of pages in which that link is used.

Managing and creating Web sites that welcome non-U.S. visitors is a challenge, but multilanguage support is essential to any company operating globally. FrontPage 2000 leverages Office 2000's new language-support tools to provide a single worldwide executable, multilingual editing, and page-by-page language settings. A single worldwide executable makes it easier to establish a global standardized installation. Office 2000 language packs are applied where appropriate.

The Windows installer used in FrontPage 2000 also enables "install by demand" for just-in-time application of FrontPage features as needed. It also supports roaming user profiles.

Page Design And Creation

FrontPage 2000 Web design themes are better than ever with the addition of custom themes. The easy-to-use theme editor provides a way for Webmasters to integrate their companies' images and colors into design themes that can give multidepartment sites a unified look. Custom themes can be used in Word 2000 and PowerPoint 2000, too.

FrontPage 98 fell far short in support of the latest HTML and scripting advances, but FrontPage 2000 catches all the way up to the latest Internet Explorer 5.0 innovations. Especially nasty was FrontPage 98's tendency to clobber any HTML code you might directly add to pages. FrontPage 2000 now respects and preserves all HTML code added outside of the editor, including server-side code such as Active Server Pages and server-side JavaScript.

Microsoft took this even further by providing HTML formatting preferences. The FrontPage editor will color-code HTML syntax according to predefined rules or according to your settings, including one that says, "Preserve existing HTML". If you let FrontPage reformat, it will follow rules for capitalization, white space, and line breaks.

Another useful feature is the Compatibility dialog. It's used to enable and disable features in the FrontPage editor to match the browsers and servers you're targeting with your pages. You can choose to support Internet Explorer only, Netscape Navigator only, both, and Microsoft WebTV. You can also choose the minimum browser version level (3.0 or 4.0) and the Web server (Microsoft Internet Information Server 3.0 or later or Apache) you are targeting. Developers can opt not to use any of these predefined feature profiles and make a custom profile.

One big reason why browser and server compatibility profiles are necessary is because FrontPage 2000 provides so many cutting-edge Web-design options. With pixel-level positioning you can choose exactly where you want HTML elements to appear, but only if using the 4.0 versions of Internet Explorer or Navigator.

Dynamic HTML is another technology available only when targeting the later versions of the browsers. Other cross-browser technologies made available by FrontPage 2000 are JavaScript, cascading style sheets positioning and formatting, and Java applets.

Web Development

If you are targeting Internet Explorer 4.0 or 5.0 with Microsoft Internet Information Server 3.0 or higher, or another FrontPage-compatible Web server on the back end, you can really take advantage of FrontPage 2000's power.

FrontPage 2000 supplies a good selection of server scripts and Java applets for such an environment, including full-text site searching, discussion groups, hit counters, banner ads, and scheduled images, such as those that change depending on the date.

Other components-such as a navigation bar and a data-bound grid control-can be added via FrontPage 2000's add-in interface, including design-time controls from Microsoft Visual InterDev. Design time controls are created with Visual InterDev and installed as FrontPage Server Extensions or, on Windows NT servers with Microsoft Internet Information Server, available through Active Server Pages.

The whole class of data-access components in FrontPage 2000 is vastly improved. FrontPage 98 supported only a one-way "Database Results Wizard" that didn't allow database updates. FrontPage 2000 still provides this wizard for users with little data-access experience, but also opens options for advanced Web data access.

Microsoft makes a valiant attempt to streamline the process of storing information submitted from a form. When a form is added to a Web page either in the layout view or the HTML view, developers can edit the form's properties to save submitted results to a file, an E-mail address, a FrontPage-provided form handler, a custom Common Gateway Interface or server API handler, or a table in a database. If you do not already have a database in which to store the results, FrontPage 2000 will create one for you, including the table and data source connections.

Best of all, with FrontPage 2000's new policy of preserving code, you can modify any scripts and Active Server Pages code that FrontPage 2000 automatically generates. You can write scripts from scratch, too, by typing them directly into the FrontPage 2000 editor or by using the built-in Microsoft Script Editor, also known as the Microsoft Development Environment.

The Script Editor is quite powerful. It provides a Visual Basic-like user interface that displays client and server objects, drag-and-drop HTML elements, and an HTML outline of your page along the left edge. A properties panel displays a selected element's properties just like Visual Basic, and the middle panel displays the page source or a page preview.

The script debugger lets users step through scripts, set breakpoints, watch variables, and monitor processes while a page is executing in Internet Explorer. One inconsistency between the Script Editor and FrontPage 2000 is that HTML formatting preferences and other options do not carry over from one tool to another.

Extending FrontPage 2000

FrontPage 2000, like its Office 2000 siblings, exposes an Application Object Model that opens the FrontPage environment to customization and extension. Menu items and toolbar tools can be added or modified, and even new wizards can be created and installed.

FrontPage 2000 AOM extensions can also access each Web page's Document Object Model. The DOM consists of the individual objects and relationships that make up an HTML page, things such as HTML formatting tags, frames, and forms. The DOM is widely used by DHTML, JavaScript, and VBScript programmers to address and affect page elements. FrontPage uses the DOM when checking pages for link information. Likewise, developers extending FrontPage 2000 via the AOM can use the DOM to access and manipulate Web pages. The Web Object Model gives access to Web site properties and settings.

FrontPage has always been somewhat dependent on having proprietary

extensions on the server side. While they are not necessary to use most FrontPage features, the components that handle automatic publishing and enable searching, form handling, and other functions won't work without the FrontPage Server Extensions installed on the Web server. Microsoft provides the FrontPage Server Extensions for free on the FrontPage Web site for most major Web servers.

Microsoft expects to ship FrontPage 2000 by the middle of June, along with the rest of Office 2000. While there are some worthwhile integration points with Office 2000, there are plenty of reasons to use FrontPage 2000 without Office 2000. Strong site-management tools and greatly improved Web page creation and Web application development tools make FrontPage 2000 my first choice for Web site development.

At A Glance: Microsoft FrontPage 2000

Microsoft

Redmond, Wash.

800-426-9400

www.microsoft.com/frontpage

Pricing: Beta version free at Web site; \$149 with \$40 mail-in rebate for Office users; \$60 upgrade

Platforms: Windows 95/98 or Windows NT 4.0 or later

Strengths

- HTML preservation allows low-level tweaking and optimization with FrontPage's HTML editing tools

- Support for Dynamic HTML, Active Server Pages, design time controls, and other sophisticated components make it easy to develop flashy, dynamic Web sites

- New access to application, document, and Web object models make FrontPage highly customizable

Weaknesses

- Microsoft Office integration is better than before but still disappointing

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Company Names: Microsoft Corp.--Product development

Industry Codes/Names: BUSN Any type of business; CMPT Computers and Office Automation; TELC Telecommunications

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